

**IN THE ABSTRACT:**

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## **ABSTRACT**

The invention relates to a system for transmitting information. The system includes a two-wire communication line having first and second wires, a power voltage supply having first and second poles. The first pole and the first wire are grounded while the second wire is connected to the second pole via a first resistor. The first wire is grounded via a second resistor having the same resistance as the first resistor. The invention also relates to a method for transmitting information over the system.